Restoring a virtual machine from a backup in mCloud

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Overview

If a virtual machine is lost, corrupted, or you simply need to roll back to an earlier point in time, you can restore it from any of its backups using the **Backup & Recovery** service in mCloud.

This article covers restoring a **full virtual machine** from one of its recovery points. It assumes you already have a backup policy and schedule in place — see the **Getting started with Backup & Recovery in mCloud** article if you have not set these up yet.

> **Before you start:** A restore creates a virtual machine from the backup you select. Depending on the options you choose, it can either be created as a **new** VM alongside your existing one, or **replace** an existing VM of the same name. Read the field descriptions below carefully before clicking **Save**, as the restore begins immediately.

Prerequisites

- Access to the mCloud dashboard at https://mcloud.micron21.com
- At least one completed backup for the virtual machine you want to restore

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Restore a virtual machine

1. Log into mCloud at https://mcloud.micron21.com and select your project.
2. Go to **Backup & Recovery > Virtual Environments > Instances**. This lists the VMs in your project along with their policy, backup status, and last backup date.
3. Find the VM you want to restore, click its **Action** button (the blue menu icon on the right), and select **Restore**.
4. The **Restore** dialog opens. Complete the fields as described below.

- **Backup location to restore** – Select the recovery point you want to restore from. The dropdown lists all available backups by date and time, with the most recent at the top.

- **Hypervisor Manager** – Pre-filled for your environment and cannot be changed.

- **Import to an availability zone** – Select the availability zone the restored VM should run in (for example, `Kilsyth_01`).

- **Restore volumes to original volume types** – Leave set to **Yes** to recreate the VM's disks using the same volume types as the original. Set to **No** only if you need to choose a different volume type.

- **Select network interface card** – Leave as **No** to keep the original network configuration. Set to **Yes** if you want to attach the restored VM to a specific network interface.

- **Select flavor** – Leave as **No** to restore with the original resource size (flavor). Set to **Yes** if you want the restored VM to use a different flavor.

- **Delete if virtual environment already exists** – Controls whether an existing VM with the same name is removed before the restore.

  - Leave as **No** to restore the VM without affecting any existing VM (recommended if you are restoring a copy).

  - Set to **Yes** to delete existing VMs with the same name in the target project before restoring.

    Caution: Setting this to **Yes** permanently deletes **all** virtual machines with that name in the project. Only use this if you intend to replace the existing VM.

- **Specify the name of the restored Virtual Environment** – Leave as **No** to keep the original VM name, or set to **Yes** to enter a custom name for the restored VM.

5. When you are satisfied with the options, click **Save**.

   The restore starts as soon as you click **Save**.

Monitor the restore

You can track the restore's progress under **Backup & Recovery > Task Console**. The task will show its state and progress, and will report as finished once the VM has been restored.

Once the task completes, the restored virtual machine will be available under **Project > Compute > Instances** in your mCloud dashboard.

Related Content

- Getting started with Backup & Recovery in mCloud